



the CARRIER.....

Published Monthly by the Mount Diablo Amateur Radio Club

MDARC FIELD DAY CALL W6CX; 2M REPEATER WR6AHK; 220 REPEATER WR6ARG; MEMORIAL CALLSIGN W6LGW

Volume XXVI	July 1978	No. 7
PRESIDENT.....	WA6OJT Dick Webster 3415 Sweet Dr. Lafayette CA 94549	284-2046
VICE-PRESIDENT.....	WA6IRZ Stan Bringer 1920 Gilly Ln. Concord CA 94518	689-0989
SECRETARY.....	WB6FOA Salley Nikkel 778 Harvard Dr. Pleasant Hill CA 94523	
TREASURER.....	WA6TML John Clyde 94 Meadow View Rd. Orinda CA 94563	254-7384
EMERGENCY COORDINATOR..	W6LKE Dwayne Eskridge P.O. Box 5502 Walnut CR. 94596	932-3971
BOARD MEMBER '77 & '78.	WA6GBB Bob Muench 836 Santa Maria Way Lafayette CA 94549	284-5445
BOARD MEMBER '78 & '79.	W6PFW Ted Durst 9 San Ardo Ct. Walnut Creek CA 94598	937-1463

Committees: Education Ch. WB6SNW; Door Prize Ch. WB6TZQ; Membership Ch. WB6BIX; TVI Comm. K6DQL, K6IMV, N6GQ, K6VLH; Repeater Grp. Ch. WB6PUA; Rptr. Grp. Treas. WB6DHH Field Day Ch. WA6JUD; Publicity Ch. WB6JGV; Novice Net WD6CGS. The CARRIER folders for June were K6IMV, K6OBB, WA6JLF & Beth, WB6AEG, W6CU & Mildred. Please mail, phone, or give all articles for the CARRIER to Managing Editor Hal Mumford W6CU 1271 Walker Ave., Walnut Creek CA 94596 phone 934-4728 before the first of the month. This month's CARRIER and future issues are being printed by Doug Lortsher W6KLM. This month's CARRIER has been typed twice - once by W6CU and then by Florence Lortsher. The CARRIER can be quoted freely.

* * * MEETING NOTICE * * *

The regular monthly meeting of the
MT. DIABLO AMATEUR RADIO CLUB
will be held at our usual meeting place;

GRACE PRESBYTERIAN CHURCH
2100 Tice Valley Blvd., Walnut Creek
July 21, 1978 8 p.m.
"THE THIRD FRIDAY OF THE MONTH"

PROGRAM

A talk by
TOM LOTT VE2AGF
about a
NARROW BAND
SPEECH COMPRESSION SYSTEM

VISITORS ARE WELCOME

PLEASE DO NOT SMOKE IN THE CHURCH BUILDING
PLEASE USE SQUARE FLOWERPOT TYPE RECEPTACLES
OUTSIDE THE BUILDING FOR CIGARETTE ASHES

If you would like to meet Tom a Piper's
between 6:00 and 6:30 please let WA6IRZ know
by Thursday or Friday.

OTHER THINGS YOU SHOULD KNOW

After crossing off 56 duplicates that the loggers and band captains missed, the "double-check" committee can say at this time (July 9) that we made more than 2800 contacts on Field Day. We are still double checking, but won't find many more duplicates. For us, this is a record. The closest year was 1975 when we made a total of 2289 contacts. It looks like we made more contacts on 450, 220, 2, 15, 20, and 40 than we ever did before. A thorough analysis will be in the August CARRIER.

Novice Net Time: Saturdays 10:30 a.m.
on 3725 kHz.

Repeater Meeting: Aug. 9, 1978 at the
Grace Presbyterian Church. The Steering
Committee is to meet before that date.

Board Meets July 31, 1978 at the QTH
of Jim Presley WD6CGS, 2926 Cedro Lane
Walnut Creek 8 p.m. All members welcome.

Picnic: August 20, 1978 - Police Academy
in Concord - Barbecue & Swimming Pool -
2 p.m. to 8 p.m.

M.D.A.R.C. MEETING OF JUNE 16, 1978

Pres. Dick WA6OJT called the meeting to order at 8:05 p.m. Old fashioned introductions took place where everyone was asked to stand one by one and introduce himself.

Treasurer's report was that the amounts in the accounts were about the same but the exact numbers weren't at the meeting.

Dwayne, W6LKE reported that as our emergency Coordinator, he was present at a Disaster Communications Seminar in Sacramento. The purpose of the meeting was to discuss the coordination of all emergency groups. He also announced a meeting soon which will probably be at the Red Cross building for all those interested in emergency communications. The details will be announced soon.

Carl, WA6JUD gave an in depth Field Day report and invited all operators. Carl also gave a list of some needed items including band captains for 20 and 15 meters.

Jim WD6CGS announced a new Novice net time and frequency of 3725 kHz and Saturday mornings at 10:30 a.m.

It was announced that Art, VE2AQV is out of the hospital and doing well. Full recovery will take time. Many thanks for the many cards.

Harry Howe, WB6BIX contacted Tom on Pitcairn Island. Tom has a cold but will be OK.

Hank, WB6WGB announced that the Davis Radio Club needs a person experienced in club incorporation procedures.

The meeting adjourned at 8:36 p.m. for coffee. After coffee there was a question and answer program on TVI handled by Stan Bringer WA6IRZ and Parky Parkinson K6IMV.

-Jack Gott, WA6KGI

- o o o o -

M.D.A.R.C. BOARD MEETING OF JUNE 26, 1978

Board meeting at QTH of Lois and Warren WB6AEG Peterson.

The meeting opened at 6:15 p.m. with President Dick Webster, WA6OJT presiding.

The board members present were: John John, Treas. WA6TML; Salley, Secty. WB6FOA; Dwayne, Emerg. Coordinator W6LKE. Faithful Club Members present were: WA6AEG, N6GQ, W6CU, WA6JLF, K6IMV, and W6KLM.

The minutes as published in the CARRIER were accepted.

Treasurer's report was read and accepted as follows: \$1,283.63 checking and \$636.57 savings. Audit will be by the end of July.

President Dick asked Dwayne W6LKE to represent the Board at the meetings of the Mt. Diablo Interpretive Association.

The Board thanks Hal Mumford W6CU for getting up real early, at 5:15 a.m. to phone

the FCC in Washington to get the OK to use the W6CX call for Field Day.

Program Committee: Stan Bringer, WA6IRZ could not be present at the board meeting.

Tom Lott, VE2AGF is scheduled to be the July Club Meeting Speaker.

Education Committee: No committee member present, but all papers for the next classes are filled in.

Membership Chairman, Harry Howe WB6BIX was not present. He was in Hawaii.

All applications for membership with fees were accepted.

The Field Day Reports are not completed.

The A.R.R.L. has appointed Dwayne W6LKE as East Contra Costa County Emergency Coordinator.

TVI Committee: Parky K6IMV reported all under control.

The Door Prize Committee needs a volunteer for sign-ins at the door at each club meeting.

Hal W6Cu and Fred WA6JLF will get together with Doug Lortsher W6KLM in the printing and assembling of the CARRIER.

The next board meeting QTH will be at the QTH of Jim Presley WD6CGS.

The August board meeting will be at the Red Cross building with Salley WB6FOA hostess.

The meeting adjourned.

Thank you Lois and Warren for the delicious cake and coffee.

Respectfully submitted

Salley Nikkel WB6FOA
Secretary

- o o o o -

Congratulations to Clayton Stiles who is now WD6GDG. Also George Hollidge is now WD6GOU. Thomas Nock is WD6FFL, not WD6FEL as stated in the June CARRIER.

Mission Trail Net held its annual roundup in Santa Rosa on Father's Day weekend. Members came from as far away as Walla Walla, WA and Sun Valley, AZ. Of course people came from all parts of CA too. MDARC members and XYL's included W6JSB, WB6UMT, WA6IVS, WB6FOA, K6IMV, and K6OBB. Ted WA6IVS won the Golden Garbage Can, loaded with electronic things.

Our Sick List is never complete. Please excuse us if we don't mention you. VE2AQV and K6OE were in and out of John Muir last month. WA6IVS is back to work after surgery. WB6TDV who is now WD5JGQ was in a Texas Veteran's Hosp. for a heart condition. W6BSL went to a hospital for observation.

THE PRESIDENT'S CORNER

I'm glad to announce that Art Mayoff is recovering well from his surgery last month. We all hope that he has got the problem whipped this time! It's been quite a battle.

I was unable to make it up to Mt. Diablo for Field Day this year, but Carl (and many others) say it was great. Most of the bands turned in record scores, and almost 3,000 contacts were made by the 40 or 50 people who showed up. It sounds like quite a success. Watch for more details in next month's CARRIER - after the logs are analyzed.

Our annual summer picnic is planned for Sunday August 20 this year. It will be between 2 and 8 p.m. at the Concord Police Academy. There are barbeque pits and a swimming pool. Each family should bring their own food. Watch for more details in next month's CARRIER. Jim Presley (WD6CGS) is in charge, and he is doing a great job. I hope to see you all at the picnic.

We looking for helpers for the CARRIER. We need someone to make up monthly labels regularly, someone to write a Who's Who column, and -January -someone to take over the editorship. Hal would like to be replaced - if such a thing is possible.

Also, I must say THANK YOU to Doug Lortsher W6KLM. Doug was an active member of our Club in the 1960's, and is getting back into amateur radio again. He has volunteered to print the CARRIER for us in his garage. This is the first month on his press. I understand that his wife is even re-typing it for us! Thanks to Doug for reduced cost, improved quality, and lots of hours of sweat! Thanks also to Fred Sabott (assistant printer) and Hal (of course) for additional running around to meet the earlier deadlines.

73

Dick Webster WA6OJT

FIELD DAY

WAS A BIG

SUCCESS

COMPLETE

DETAILS

NEXT

MONTH



TOM LOTT TO SPEAK

The speaker for the meeting on the evening of July 21 is Tom Lott. Tom is involved in the development of a narrow band speech compression system that holds great interest as the demand for spectrum space becomes more severe. Speech consists of low frequency vowel sounds and high frequency sounds. The system he is working on is one that folds the high frequency consonant sounds down into spaces between low frequency vowel sounds. The resultant bandwidth could be as narrow as 1500 or 1700 Hz.

Tom holds several calls. He was first licensed in 1936 as G2CIN. He has held the VE2AGF call since 1947. Tom also maintains a station in Hong Kong, VS6FW, for his trips to that island.

Others working on the narrow band audio system are Dr. Richard Harris of the Electrical Engineering Department of the University of the Pacific at Stockton, and a graduate student, Fred Cleveland, WB6CZX.

Let's all come out and welcome Tom for our July meeting.

By the way, Tom is going to join me at Piper's between 6:00 and 6:30 p.m. All are invited of course, and please let me know on the repeater that Thursday or Friday if you wish to join us.

-Stan Bringer WA6IRZ

TWO FIELD DAY MEMOS

(1) On the day before Field Day at 4:50 a.m. a call to the FCC in Washington (not answered) and a call at 5:15 a.m. (answered by a woman who referred me to another woman who referred me to a very courteous and knowledgeable gentleman) resulted in a careful checkup on our callsign expiration update request of April 18. At 8 a.m. FCC called back, giving us unqualified approval to use the callsign W6CX pending a catch up on their paper work.

(2) Three W6CX/6 F.D. logbooks have been thoroughly checked by the "double-check committee", resulting in this data available for release to our anxious membership.

<u>Band</u>	<u>Phone Contacts</u>	<u>CW</u>	<u>Total</u>
3/4 M	23	0	23
1 1/4 M	60	0	60
6 M	14	0	14
20 M	483	123	606
40 M	401	211	612

The 2, 10, 15, 80 meter and the Novice band logbooks have not yet been given the super-dupe treatment by the committee.

- W6CU, July 5, 1978

Room and Board Wanted Stan Kuhl (21 year old son of K6MA) wants to room and board in this area while working at the Naval Weapons Depot for the next 6 months. If you can help, phone Stan, Sr. K6MA (his Dad) 408 736-8358.

Nametags \$2.00 Make check out to the Club and give or send to Harry Howe, 5 Las Vegas Road, Orinda, CA 94563

For Sale: My extra January 1931 copy of QST. \$2.95 If no sale this month, the price goes down to \$2.90 next time I need a fill-in for our want-ad column.
- W6CU (Editor) 934-4728

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REPEATER NEWS

The next repeater meeting will be held on Aug. 9 at the Grace Presbyterian Church. A meeting of the Steering Committee will be held sometime prior to that date, and will be announced later.

WR6ACP did not come up on the 23rd of June, as scheduled, as the transmitter would have interfered with Field Day. It came up on July 1 and will come up again July 8 as scheduled. ACP has been repaired and access codes will now work with most touch tones. In fact, if my Wilson audio-coupled pad will work, any pad will work. ACP is now like AHK - secondary controlled. Call any repeater officer or ACP owners for the correct codes.

I have noticed that nobody uses the phone patch for emergency calls. Request are always made to base stations to call in the emergencies. The ham on the spot can make the best call to describe the emergency without having to rely on another station to relay the message. On the 4th, a fire was discovered and a call was made direct, using the phone patch. It is quicker and more reliable. Later on in the day, a foreign object was seen on the highway which could have caused an accident. This was also patched into the authorities. This is what the patch is for. I have heard many stations report accidents egc. without using the patch. If an emergency is noticed by a nonmember, a member station can access the phone and let the ham at the scene talk to the authorities.

If you see an emergency requiring quick action, call 228-8282 which will put you into Contra Costa Emergency Center, which has a direct contact with all local emergency centers. If you have other numbers of local agencies, use them. Some stations have a list taped to their rigs.

When a control station brings up the repeater, it might be a good idea to access the phone and hear the dial tone. If it isn't working, call me or another officer so it may be brought back up. Remember that ACP does not have a phone patch. The owners of ACP might consider adding this feature to make it like AHK.

So far, everything is working well. If members have anything of interest for repeater operators let me know so I can put it in a REPEATER NEWS article. You may know of things that may be of interest for everyone. The availability of 220 gear so more members may work WR6ARG may be good to know. The 220 machine is working well and it also has a phone patch.

- Jay D. Caldis WB6PUA

M T R O N



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350PS	229.			MT-3000A	349.	PS7	166.	105BA	119.95
305VFO	155.	BENCHER		MT-2000A	199.	L4B	995.	155BA	169.95
311OSC	135.	BY-1	39.95	160-10T	129.	MN4C	165.	205BA	289.95
DD6XL	229.	BY-2	49.95	JR-MONITOR	79.	MN-7	165.	204BA	189.95
DMK-XL	65.			W-2	99.	MN-2000	250.	204MK5	99.95
MT-1	29.	CDR ROTATORS				WH-7	89.	12AVQ	37.95
DL-200	15.	SEE SPECIALS*		DRAKE		W-4	79.	14AVQ	67.00
210X	765.			DSR-2	3200.	1525EM	49.	18AVT/WB	97.00
210X/NB	810.	CURTIS		R-4C	699.	TV-3300LP	26.	TH3MK3	199.95
215X	765.	EK-430	124.95	4NB	74.	B-1000	24.	TH6DXX	249.95
215X/NB	810.	IK-440A	224.95	TR-7	886.			TH2MK3	139.95
220CS	155.	8043	14.95	DR-7	186.	HUSTLER-NEWTR.			
200PS	105.	8043-3	24.95	TR/DR7	1072.	4BTV	99.	ICOM	
DD6-C	235.	804304	54.95	AUX-7	38.	MO1 & 2	22.	IC-280	PTBA
VX-5	60.			RRM-7	5.	RM & RMS		IC-30A	399.
PC-120	60.	CUSHCRAFT		RTM-7	5.	RESONATORS		IC-202	259.
DMK	55.	ARX-2	36.95	RV-7	156.			IC-211	749.
		A144 10T	39.95	FA-7	24.	HY-GAIN		IC-215	229.
B&W		A432 20T	54.95	NB-7	74.	18HT	279.95	IC-245SSB	599.
592	16.50	A14TMB	17.95	FILTERS EA.	49.	18V	24.95	IC-502	259.
375	18.95			T4XC	699.	203	12.95	IC-701	1499.
376	18.95	DENTRON		TR-33C	229.	205	16.95	K.E. ELECTRONICS	
595	18.50	DTR-I	PTBA			208	19.95	UB80-40TDA	39.

Mon - Fri 9am to 5 pm - Sat 9am to 4 pm

Doug - W6HVN, Cal - WB6MPS, Jim - N6IG

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CW-100 3.95		574 DIG 399.	TAB	8 COND. ROTOR
SQ-AUTO56.95	SST		COWAN	CABLE
MEMO 109.95	T-1 29.95	TRI-EX	CALLBOOK	ANTENNA WIRE
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PATCH 36.50		W-67 1798.		
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DRAKE 34PNB NB 88.00

FRANKLIN 8" 24HR CLOCK 17.50

TURNER PLUS 2 MIC DESK 29.95

HEATH HW-18 160M TCVR 89.00

NATIONAL NCX-3 SSB TCVR 149.00

SWAN 14A DC MODULE 39.00

COLLINS RACK MOUNT 50.00

DRAKE TR-4 W/DX ENGR PROC 439.

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KLM PA10-70B 2M AMPL. 95.

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TEN-TEC KR-2A \$13.50

FRANKLIN 12" 24HR CLOCK \$19.00

HUSTLER MOBILE GUTTER MOUNT \$ 5.95

M-Tron Used Equipment List

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NATIONAL NCX-3 SSB TCVR 149.00

SWAN 14A DC MODULE 39.00

COLLINS RACK MOUNT 50.00

DRAKE TR-4 W/DX ENGR PROC 439.

DRAKE AC4/ MS4 110.

KLM PA10-70B 2M AMPL. 95.

COLLINS 351D2 KWM2 MOB MT 49.00

DRAKE DC-4 MOB DC PS FOR TR4 119.00

COLLINS 30L1 AMPL 429.00

DRAKE R4-A RECEIVER 289.00

SWAN 270B CYGNET SSB TCVR 329.00

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SYDNEY NOVICE AMATEUR GROUP AWARD

With the increase of 10 meter activity more and more awards are being sought on that band.

Although I am not an award chaser, I don't have a 10-10 number, there are a couple of awards from "down under" that are rather nice. Both have the same basic rules (shown below).

Australian novices are allowed 30 watts PEP on SSB and 10 watts CW and limited frequencies, 3.525 - 3.575, 21.125 - 21.200 and 28.1 - 28.6 MHz. Most all put in good signals, especially on the 10 meter band.

I have the SNAG award #37 and only the second one issued to statewide hams.

*Although I am still waiting for the Jumbunna award (VK3), I have been informed by the award coordinator that I am #1 from the states.

If there is any interest in the Jumbunna award, contact me for the address of the award manager. The SNAG award managers are listed with the basic rules.

Have fun chasing the award, but you might get stuck in a long ragchew instead. I have made many friends "down under" and have regular skeds with alot of them.

* This award was received after this was written.

- Hank Beisheim WB6TZQ

BASIC RULES

1. The SNAG certificate will be awarded to any overseas station having worked and caring to claim 15 VK2N contacts since Jan. 1, 1977.
2. These may have been worked on any Australian novice band and in any mode.
3. The stations worked must have a VK2N prefix and a two letter suffix i.e. VK2N??
4. Endorsement stickers will be available upon further claim for, 15CW, 15SSB, 15, 80 meters, etc.
5. A list must accompany claims stating call signs, names, dates, times and frequencies of the 15 VK2N stations worked and 7 IRC's to cover postage by Air Mail return. Provided these points are complied with Certificate issue is guaranteed.
6. Claims can be sent to any one of the following: VK2NEC - Ern Cornwell, P.O. Box 90, Cordon, N.S.W. Australia 2042; VK2NAR - John Robinson, P.O. Box 54, Turramurra, N.S.W. Australia 2074; VK2NDF - Gerry Fergus, P.O. Box 76, St. James, N.S.W. Australia 2000.

HOW TO CALCULATE THE OSCAR BAY AREA

CLOSEST FLYOVER TIMES (UTC)

Be sure that you are familiar with Universal Coordinated Time (UTC) and also that you are knowledgeable in respect to the date that is associated with that kind of time.

Look up the longitude and UTC of the "reference orbit". Such reference orbits and other data are in QST each month. Be sure you know the satellite's mode. (But an HR report says that sometimes the satellite is not in the planned mode. If that happens, try again.)

OSCAR 7

Evening: If the reference orbit says "66.4" or less for the longitude, add 4 hrs. 2 min. to the reference orbit's time. But if the ref. orbit says more than 66.4, add 2 hrs. 7 min. to the ref. orbit's time. The very closest Bay Area pass occurs if the ref. orbit happens to say "80.9".

Morning: If the ref. orbit says "84.7" or less, add 16 hrs. 5 min. to the ref. orbit's time. But if the ref. orbit says more than 84.7, add 14 hrs. 10 min. to the ref. orbit's time. The very closest pass occurs if a ref. orbit happens to say "70.2".

OSCAR 8

Evening: If the ref. orbit says "47.6" or less, add 5 hrs. 21 min. to the ref. orbit's time. But if the reference orbit says more than 47.6, add 3 hrs. 37 min. to the ref. orbit's time. The very closest pass occurs if a reference orbit happens to say "60.4".

Morning: If the ref. orbit says "54.0" or less, add 17 hrs. 57 min. to the ref. orbit's time. But if the ref. orbit says more than 54.0, add 16 hrs. 10 min. to the ref. orbit's time. The very closest pass occurs if a ref. orbit happens to say "66.9".

EXAMPLE

On the evening of July 16, you notice that on page 76 of July QST it says Oscar 8's A mode ref. orbit 1860 July 17 has a long. of 60.5 and 0126 UTC. Because 60.5 is more than 47.6, you add 3 hrs. 37 min. to 1 hr. 26 min., resulting in 5:03 UTC July 17. That means Oscar 8 goes over us at 10:03 p.m. PDST July 16. Because 60.5 is close to 60.4, this is a very close overhead pass. You key your hand held 2 meter rig on 145.890, call CQ, and hear somebody come back to you on 29.432 MHz (which is 145.890 - 116.458 as explained on page 3 of April's CARRIER and WB6TZQ's article on page 6 of the May CARRIER.) On that same evening, Oscar 7's calculation for overhead would be 7:50 p.m. PDST. For Oscar 7, the freq. on 10 would be 145.890 minus 116.450 (not minus 116.458)

- Good Luck, Hal Mumford W6CU

SOME CONDENSED & REWORDED HR REPORTS

CB's threat to 220 MHz is far from dead. A 20-month study by an FCC group concludes that 220-225 and the 900 MHz band mobile reserve bands are the best spots for a new CB service, and economics, performance, timing, and possible medical considerations all lean toward 220 MHz.

Oscar 8's orbits ran about $2\frac{1}{2}$ minutes later than predictions published prior to the latter part of June. (Editor's note: I noticed this). If you purchased W6PAJ's book of orbital predictions, about $2\frac{1}{2}$ minutes should be added to the orbits.

Senator Barry Goldwater chaired the hearing recently on his RFI bill requiring better RFI regulation. FCC commissioners are divided on the issue, mainly because of the cost to set it up and administer it.

Passage of a revised 1934 Communications Act is a long way off. There is a proposal to abolish the FCC in favor of a "Communications Regulatory Commission" and delegate frequency allocation to the "National Telecommunications Agency". Amateur license terms would be increased to 10 years and there would be a license fee.

Every Amateur's efforts will count in the fight to retain and expand the Amateur bands at next year's World Administrative Radio Conference (WARC).

420-450 MHz band users may be in for severe interference problems when Air Force's "PAVE PAWS" radar goes into operation in the next year or so.

The FCC can prohibit indecent words from being broadcast, according to the Supreme Court. Two-way radio conversation was not involved in this case. (Editor's comment: When I was 7CU in 1919, it was unlawful to transmit indecent words by CODE).

A person alleged to be "W6JAM", a persistent jammer whose racial slurs and obscenities have plagued the Los Angeles repeaters (principally WR6ABN) for some time, was "detained" for questioning June 21. The case will be going before a grand jury soon.

Oscar 8's orbit is now almost three minutes behind its previously predicted orbit and it's dropping further off at about a minute per month.

- o o o o -

THE ODDS AND ENDS COLUMN

This is the last page that is being typed up for this month's CARRIER. We will fill this column with various bits of news, etc. that didn't fit into other columns.

TOO LATE TO CLASSIFY: For Sale-
Homebrew 3 element 10 meter beam \$25.00
Alliance U-100 TV rotator. Will turn a 10 meter beam or 2 meter beam. 75 ft. control cable \$25. Or both items for \$40.00.

-Hank WB6TZQ 687-3317

- o o o o -

QTH CHANGES

Helen Rinker WB6YWC and Guy Rinker are moving to Reno. Their address: 3552 Caballo Alto Court, Reno NV 89502. Phone number is (702) 826-2375. If you happen to be in the Reno area, you are invited to phone them and call on them. You would be very welcome.

Manuel and Beverley Espinole have moved to 2048 Morello Rd., Pleasant Hill CA 94523

- o o o o -

OVERHEARD ON FIELD DAY

A very rapid conversation that went something like this took place during Field Day. Jim Presley WD6CGS was at the mike.

Jim: CQ Field Day, CQ Field Day. This is W6CX, Whiskey 6 Charlie X ray, W6 Charlie X ray, portable 6

WA7??? : Say, what's Field Day anyway? Everybody's calling CQ Field Day.

Jim: (Jim explains what radio amateurs do on Field Day, and invites him to exchange the required Field Day information.)

WA7??? : Naw, I don't want to do that. I - I never heard of Field Day. I don't understand it.

Jim: 10-4 Buddy. Have a nice day. CQ Field Day, CQ Field Day. This is W6CX.

WA7??? : Hey! Come on now! I didn't mean it that way.

(Jim then comes back to him again, the guy gets into the spirit of the thing, and they exchange the necessary signal reports and sections for a Field Day contact.)

- o o o o -

Summer vacation is here, so watch out for children-especially if they are driving cars.

Wanted: Parabolic Reflector Dish
Dick Squires 228-9912

For Sale: G. E. Progress Line
2 meter FM Base Station, 60 watts,
Two Channels \$80 Also,
Motorola Dispatcher, 8 watts, single
channel 2 M 12 volt Mobile FM.
Crystalled on WR6AUL \$30

- Pete Danzig WA6 WVH 944-1220

For Sale: 4BTV Vertical 10-40 vertical
trap antenna. \$50

- Al Savery W6TLJ 825-9163

For Sale: Mosley Triband Quad 2 elements
All the hardware and instructions included.
.\$50. - John Stobb WD6EMK 458-2921

Free Loan: (or listen to it on the phone)
A recording of the last 14 minutes of Field
Day, 20 meters, W6CX?6, WA6JUD at the mike.
He was making contacts at the rate of 93
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TVads and listen to something worthwhile.
Just call:

- Hal Mumford W6CU 934-4728

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mail to our treasurer John Clyde 94 Meadow
View Rd., Orinda, CA 94563.

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recovery/return of STOLEN ITEMS:
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AM/FM/SW/CB/PSB, PORTABLE. MODEL #1496
SUPERSCOPE AM/FM RADIO W/BUILT-IN
CASSETTE RECORDER. MODEL CR-800 (2 of them)

PANASONIC AM/FM /PSB RADIO W/PUBLIC ADDRESS
SYSTEM & TIMER BUILT IN W/MIC IN CASE ON
SHOULDER STRAP. MODEL RF-888

SHARP BRAND RADIO, AM/FM/SW 3.9-12MHz
with shoulder strap. MODEL FY-72U

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LAST MONTH'S PROBLEMS

Question No. 1 was: What type of radio telephone using vacuum tubes does not require an oscillator?

Answer: It is not possible to build a radio telephone without oscillators. The receiver could be a tuned-radio-frequency type but I know of no way to build a radio transmitter without any oscillator.

Question No. 2 was: Why are electrostatic shields used between windings in coupling transformers?

Answer: The purpose of the shield is to reduce the capacitance effect between the windings.

- Jack Gott WA6KGI

SAYINGS TAKEN FROM THE JULY 1972 CARRIER

Every year it takes less time to fly across the ocean and longer to drive to work.

.....

No man goeth before his time - unless his boss leaves early.

.....

He who blows his own horn has no wind left for climbing.

.....

THIS MONTH'S PROBLEM

Put away your handbooks and get out your High School algebra books again.

A ham has a new tower he just purchased for his six-element quad. The city granted him permission to put it up if it would fit in his back yard. His tower is a free-standing three-legged tower measuring 11 ft. between any two legs. The back yard has an area of 200 square feet and a perimeter of 60 ft. Will the tower fit in his yard?

- Jack Gott WA6KGI

More sayings taken from the July 1972 CARRIER

Statistics show that at age 70 there are five women to every man. Isn't that the craziest time for a guy to get those odds.

.....

There's no fool like an old fool. You just can't beat experience.

.....

Plastic surgery can do anything with the nose except keep it out of other people's business.

.....

It's smart to pick your friends, but not to pieces.

.....

From:
Mt. Diablo Amateur Radio Club, Inc.
P.O. Box 23222
Pleasant Hill, Calif. 94523

Affiliated with the ARRL
Affiliated with the American Red Cross
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FIRST CLASS MAIL

JULY CARRIER DISTRIBUTION THIS YEAR COMPARED TO JULY OF OTHER YEARS

	1973	1974	1975	1976	1977	1978
Members	100	172	215	249	262	281
Exchanges	14	12	17	14	13	17
Firms	9	10	10	12	10	14
New Licensees						10
Visitors at our last meeting						5
Special Requests						3
Copies for our files						2
Extras for Handouts, etc.						5
						337
Minus "One to a family CARRIERS"						12
						325



TO:

